AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions, and listings, of claims:

1	1.	(Currently Amended) A method of establishing communications between
2	a base station	and a system controller over a Gb network, comprising:
3		identifying a plurality of paths in the \underline{Gb} network, each path defined by an
4	Internet Protoc	$\frac{\text{col (IP)}}{\text{address}}$ in the base station and an $\overline{\text{IP}}$ address in the system
5	controller, who	erein the plurality of paths are identified by different combinations of one
6	or more base s	station IP addresses and one or more system controller IP addresses; and
7		selecting one of the plurality of paths in the Gb network to communicate
. 8	data associated with a given mobile station.	
1	2.	(Currently Amended) The method of claim 1 A method of establishing
2	communicatio	ns between a base station and a system controller over a network,
3	comprising:	
4		identifying a plurality of paths in the network, each path defined by an
5	address in the	base station and an address in the system controller; and
6		selecting one of the plurality of paths to communicate data associated with
7	a given mobile	e station,
8		wherein selecting one of the plurality of paths comprises performing an
9	implicit negotiation in which the path is defined by a source address of a message	
10	communicated by the base station and by a source address of a message communicated	
11	by the system	controller.
1	3.	(Original) The method of claim 2, wherein performing the implicit
2	negotiation comprises sending and receiving messages in a session having bi-directional	
3	data flow.	

- 1 4. (Currently Amended) The method of claim [[1]] 2, wherein the network is
- 2 a packet-switched, connectionless network, and wherein selecting one of the plurality of
- 3 paths comprises selecting one of a plurality of virtual connections on the packet-
- 4 switched, connectionless network, each virtual connection based on a base station address
- 5 and a system controller address.
- 1 5. (Original) The method of claim 1, further comprising selecting another
- 2 path by sending a message from another source address.
- 1 6. (Original) The method of claim 5, wherein sending the message comprises
- 2 sending a UNITDATA message.
 - 1 7. (Original) The method of claim 1, further comprising selecting another
 - 2 path by sending a change-route request.
 - 1 8. (Original) The method of claim 7, wherein sending the change-route
 - 2 request comprises sending a General Packet Radio Service NS-CHANGEROUTE
 - 3 request.
 - 1 9. (Original) The method of claim 7, wherein selecting another path by
 - 2 sending the change-route request is part of an explicit path negotiation.

1	10.	(Currently Amended) The method of claim 7 A method of establishing
2	communication	ns between a base station and a system controller over a network,
3	comprising:	
4		identifying a plurality of paths in the network, each path defined by an
5	address in the l	pase station and an address in the system controller;
6		selecting one of the plurality of paths to communicate data associated with
7	a given mobile station; and	
8		selecting another path by sending a change-route request,
9		wherein selecting another path by sending a change-route request is
10	performed during a session having unidirectional data flow between the base station and	
.11	the system con	troller.
1	11.	(Original) The method of claim 7, wherein sending the change-route
2	request compri	ses sending a request containing an identifier of a mobile station.
1	12.	(Original) The method of claim 11, wherein the identifier comprises a
2	General Packet	t Radio Service temporary logical link identifier.
1	13.	(Currently Amended) The method of claim 7 A method of establishing
2	communication	ns between a base station and a system controller over a network,
3	comprising:	
4		identifying a plurality of paths in the network, each path defined by an
5	address in the	base station and an address in the system controller;
6		selecting one of the plurality of paths to communicate data associated with
7	a given mobile	e station; and
8		selecting another path by sending a change-route request,
9		wherein sending the change-route request comprises sending the change-
10	route request using a new source address, and wherein selecting the other path is based or	
11	the new source address.	

1	14.	(Original) The method of claim 1, further comprising:	
2		disabling an address; and	
3		sending a change-route request containing the disabled address to change a	
4	path for each	mobile station assigned a path defined by the disabled address.	
1	15.	(Currently Amended) A first system for use in a mobile communications	
2	network, comprising:		
3		a communications module adapted to communicate over a packet-	
4	switched net	work coupled to a second system, the first system being one of a base station	
5	and a system controller and the second system being another one of the base station and		
. 6	the system controller;		
7		a storage element containing one or more first addresses associated with	
8	the first system; and		
9		a control module adapted to select one of plural paths over the packet-	
10	switched net	work, each path defined by one address associated with the first system and	
11	one address associated with the node second system,		
12		the control module adapted to select one of plural paths over the packet-	
13	switched net	work by performing an implicit negotiation in which a path is defined by a	
14	source address of a message communicated by the first system and by a source address o		
15	a message co	mmunicated by the second system.	
1	16.	(Currently Amended) The first system of claim 15, wherein the	
2	communications module is adapted to communicate over a Gb interface provided in the		
3	packet-switched network, wherein the plural paths are Internet Protocol (IP)-based virtua		
4	circuits of the	e Gb interface, each IP-based virtual circuit identified by a unique	
5	combination	of an IP address associated with the first system and an IP address	
6	associated with the second system.		
1	17.	(Original) The first system of claim 15, comprising the base station.	

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- 1 18. (Original) The first system of claim 15, comprising the system controller,
- 2 the system controller comprising a serving GPRS support node.
- 1 19. (Canceled)
- 1 20. (Currently Amended) The first system of claim 15, wherein each address
- 2 comprises an Internet Protocol address, and the control module is adapted to detect out-
- 3 of-order delivery of Internet Protocol packets in one of the paths over the packet-
- 4 switched network between the base station and the system controller.
- 1 21. (Original) The first system of claim 15, wherein each path is further
- 2 defined by a User Datagram Protocol port of the first system and a User Datagram
- 3 Protocol port of the second system.
- 1 22. (Original) The first system of claim 15, wherein the control module
- 2 comprises a load sharing task to select different paths for different mobile stations.
- 1 23. (Original) The first system of claim 15, further comprising a GPRS
- 2 Network Service layer, the Network Service layer comprising the control module.
- 1 24. (Original) The first system of claim 23, further comprising an upper layer,
- 2 the Network Service layer exchanging primitives with the upper layer.

1	25. (Currently Amended) The first system of claim 24 A first system for use		
2	in a mobile communications network, comprising:		
3	a communications module adapted to communicate over a packet-		
4	switched network coupled to a second system, the first system being one of a base station		
5	and a system controller and the second system being another one of the base station and		
6	the system controller;		
7	a storage element containing one or more first addresses associated with		
8	the first system;		
9	a control module adapted to select one of plural paths over the packet-		
10	switched network, each path defined by one address associated with the first system and		
.11	one address associated with the second system;		
12	a GPRS Network Service layer, the Network Service layer comprising the		
13	control module; and		
14	an upper layer, the Network Service layer exchanging primitives with the		
15	upper layer,		
16	wherein the primitives comprise an NS-UNITDATA-Request primitive		
17	carrying outbound data and an NS-UNITDATA-Indication primitive carrying inbound		
18	data, the NS-UNITDATA-Indication primitive containing a remote link selector		
19	parameter, and the NS-UNITDATA-Request primitive containing the remote link		
20	selector parameter and a local link selector parameter.		
1	26. (Original) The first system of claim 25, wherein the control module is		
2	adapted to select an address associated with the first system based on the local link		
3	selector parameter.		
1	27. (Original) The first system of claim 26, wherein the control module is		
2	adapted to select an address associated with the second system based on the remote link		
3	selector parameter.		
1	2836. (Canceled)		

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(Currently Amended) An article comprising at least one storage medium 37. 1 2 containing instructions for establishing communications over a network between a base station and a system controller, the instructions when executed causing a first node to: 3 identify a plurality of paths in the network, each path defined by an 4 5 Internet Protocol (IP) address in the base station and an IP address in the system controller, the first node being one of the base station and system controller; and 6 7 select one of the plurality of paths to communicate data associated with a 8 given mobile station; and 9 send a message to decommission an IP address of one of the base station 10 and system controller. (Currently Amended) The article of claim 37 An article comprising at 1 38. least one storage medium containing instructions for establishing communications over a 2 network between a base station and a system controller, the instructions when executed 3 4 causing a first node to: 5 identify a plurality of paths in the network, each path defined by an address in the base station and an address in the system controller, the first node being 6 7 one of the base station and system controller; and 8 select one of the plurality of paths to communicate data associated with a 9 given mobile station, wherein the instructions when executed cause the first node to: wherein selecting select one of the plurality of paths by comprises 10 performing an implicit negotiation in which the path is defined by a source address of a 11 message communicated by the base station and by a source address of a message 12 13 communicated by the system controller. (Currently Amended) The article of claim 37 38, wherein the network is a 39. 1 packet-switched, connectionless network, and wherein the instructions when executed 2 cause the first node to select one of the plurality of paths by selecting one of a plurality of 3 virtual connections on the packet-switched, connectionless network, each virtual 4 connection based on a base station address and a system controller address. 5

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1	40.	(Original) The article of claim 37, wherein the instructions when executed	
2	cause the first node to further select another path by sending a message from another		
3	source address.		
1	41.	(Currently Amended) The article of claim 37, wherein the instructions	
2	when executed cause the first node to further select another path <u>for each mobile station</u>		
3	assigned a path defined by the decommissioned address by sending a change-route		
4	request containing a different IP address.		
1	42.	(Original) The article of claim 41, wherein the instructions when executed	
2	cause the first node to send the change-route request containing an identifier of a mobile		
3	station.		
1	43.	(Currently Amended) The article of claim 42 An article comprising at	
2	least one stor	age medium containing instructions for establishing communications over a	
3	network between a base station and a system controller, the instructions when executed		
4	causing a firs	t node to:	
5		identify a plurality of paths in the network, each path defined by an	
6	address in the	e base station and an address in the system controller, the first node being	
7	one of the ba	se station and system controller;	
8		select one of the plurality of paths to communicate data associated with a	
9	given mobile	station; and	
10		select another path by sending a change-route request, wherein the	
11	change-route	request contains an identifier of a mobile station,	
12		wherein the instructions when executed cause the first node to send the	
13	change-route	request using a new source address, and to select the other path is-based on	
14	the new source address.		
1	44.	(Canceled).	